Fall 2013 – LP2

Course Assignments
for

Information Visualization
4DV300 – Fall 2013

3rd assignment

Deadline for this assignment is Jan 7, 2014.

Task 1 *Answer the questions*

Answer the following questions. The questions are part of the next three lectures, so you might want to listen to the lectures first. But you can already start with task 2.

1. What is the difference between Overview + Details and Focus + Context? Try to describe pros and cons of each approach.

2. What is the difference between the Graphic Fisheye and Logic Fisheye views? Can they be combined? If yes, how (an example perhaps)?

3. What are Polyfocal Displays? What are they used for? Draw the transformation function for Polyfocal Displays.

4. Describe the idea behind Hyperbolic Spaces. Describe the possible interactions in Hyperbolic Trees.

Task 2 *Multidimensional Data*

Your last assignment is to design and implement a visualization tool for a simple multivariate data set. You can use external libraries for visualizing the data if you want.

Before you begin to create your visualization, think about the data set and what would people like to do with it. What would one want to know, how can he/she find specific information, what other task would one like to perform with the data? Your visualization should help users in performing these tasks. Simple visualizations such as bar charts or scatter plots are not enough to pass the assignment. You should demonstrate that you have acquired some knowledge about the field and understand the techniques.

You should submit a report with an explanation about how to use your tool. You should explain how the user is able to perform various tasks (your visualization should support at least one task). Also, we would like to have your opinion about the advantages and disadvantages of your design. You should also send your source code together with a **runnable application**. The dataset can be found on the link below or in Moodle.

Dataset file: `http://cs.lnu.se/isovis/courses/fall13/4dv300/assignments/players.csv`

Please put all files in an archive (*.zip*) and upload it in Moodle before the given deadline! If you have questions about the assignments you can contact Björn Zimmer via email (bjorn.zimmer@lnu.se).
Note: Do not forget to include the course code in the email subject field (4DV300).